ENVIRONMENTAL ABORATORIES, INC.

100GBA.RPT

Analytical Laboratory Report TRPH EPA Method 418.1

Date Sampled: Date Received:

4/18/97, 4/21/97

Report Number: Lab Number:

4/21/97 ID063A.RPT

1D063

Proj Mgr:

Client: Project:

Units Soil:

Units Water:

Rus Purcell Kennedy/Jenks 974002.00

mg/Kg ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matri
10063-01	2BB-1-2 6- 1	4/21/97	4/21/97	19	1	Sail
11063-02	289-1-26-4	4/21/97	4/21/97	ND	1	Soil
ID063-03	28B-1-24-10	4/21/97	4/21/97	מא	1	Soil
ID063-04	2BB-1-26-20	4/21/97	4/21/97	NĎ	1	Soil
10063-05	2BB-1-26-30	4/21/97	4/21/97	ND	I_	Soil
1D063-06	2BR-1-26-48	4/21/97	4/21/97	ИD	ı	Švil
1D063-07	2BB-1-24-50	4/21/97	4/21/97	45		Soil
10063-08	2RB-1A-1-1	4/21/97	4/21/97	ND		Soil
1D063-09	28R-1A-1-4	4/21/97	4/21/97	מא	1	Soil
1D063-10	2BB-1A-1-10	4/21/97	4/21/97	טא	1	Soil
10063-11	2BB-1A-1-20	4/21/97	4/21/97	ND	1	Soil
1D063-12	2BB-1A-1-30	4/21/97	4/21/97	ND	1	Soil
ID063-13	2BB-1A-1-40	4/21/97	4/21/97	שא	1	Soil
1D063-14	2BB-1A-1-40	4/21/97	4/21/97	DM	1	Soil
1D063-15	2RR-5-9-1	4/21/97	4/21/97	345	1	Soil
1D063-16	2RB-5-9-4	4/21/97	4/21/97	18	1	Soil
10063-17	28 8-5-9- 10	4/21/97	4/21/97	ND	1	Soil
10063-18	2BB-5-8-1	4/21/97	4/21/97	110	1	Soil
1D063-19	2BB-5-8-4	4/21/97	4/21/97	33	1	Soil
1D063-20	3BB-2-8-10	4/21/97	4/21/97	מא	1	Soil
10063-21	2BB-5-48-1	4/21/97	4/21/97	32	ı	Soil
1D063-22	2BB-5-48-4	4/21/97	4/21/07	44		Soil
110/63-23	2BB-5-48-10	4/21/97	4/21/97	ND	1	Soil

Reporting Limits SOIL mg/Kg

NOTE:
Not - Not repeated.
NOTE: Another and definited at, or release the reporting limit works; Milliams and Albanian (PPM; 1974).
NOTE: Adventures par Albanian (PPM)
POT: The whole O-maintain Limit. Expans definition from the Advice (PPM)
Advice (PPM)
Potential O-maintain Limit. Formula definition for the Advice (PPM)

14' - Deliation Plantar

PROUBDOMBS:
"(091- This molyms was participal some NTA Melaul 418.).

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Analytical Laboratory Report TRPH

EPA Method 418.1

Date Sampled: Date Received: 4/21/97 4/21/97

Report Number: Lab Number:

1D063B.RPT

1D063

Proj Mgr:

Client: Project: Units Soil:

Units Water:

Rus Purcell Kennedy/Jenks

974002.00

mg/Kg ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	ТКРН	Dilution Factor	Matrix
ID063-24	2BB-1A-2-1	4/21/97	4/21/97	ND	ı	Soil
1D063-25	2BB-1A-2-4	4/21/97	4/21/97	ND	1	Soil
1D063-26	2BB-1A-2-10	4/21/97	4/21/97	ND	1	Soil
ID063-27	2BB-1A-2-20	4/21/97	4/21/97	ND	l	Soil
ID063-28	2BB-1A-2-30	4/21/97	4/21/97	ND		Soil
1D063-29	2BB-1A-2-40	4/21/97	4/21/97	ND	ı	Soil
ID063-30	2BB-1A-2-50	4/21/97	4/21/97	ND	1	Soil
ID063-31	2BB-1A-4-1	4/21/97	4/21/97	ND	1	Soil
1D063-32	2BB-1A-4-4	4/21/97	4/21/97	ND	1	Soil
ID063-33	2BB-1A-4-10	4/21/97	4/21/97	ND	1	Soil
ID063-34	2BB-1A-4-20	4/21/97	4/21/97	ND	1	Soil
1D063-35	2BB-1A-4-30	4/21/97	4/21/97	ND	1	Soil
ID063-36	2BB-1A-4-40	4/21/97	4/21/97	ND	1	Soil
1D063-37	2BB-1A-4-50	4-21/97	4/21/97	ND	1	Soil
1D063-38	2BB-5-47-1	4/21/97	4/21/97	ND	L	Soil
1D063-39	2BB-5-47-4	4/21/97	4/21/97	20	_	Soil
1D063-40	2BB-5-47-10	4/21/97	4/21/97	ND	1	Soil
ID063-41	2BB-5-46-1	4/21/97	4/21/97	ND	1	Soil
ID063-42	2BB-5-45-1	4/21/97	4/21/97	11	1	Soil
ID063-43	2BB-5-45-4	4/21/97	4/21/97	84	1	Soil
1D063-44	2BB-5-45-10	4/21/97	4/21/97	ND	ì	Soil
1D063-45	2BB-1A-3-1	4/21/97	- 4/21/97	ND	I	Soil
1D063-46	2BB-1A-3-4	4/21/97	4/21/97	17	1	Soil

 Reporting Limits SOIL m	g/Kg	10

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NOTES
NR - Not requested
ND - Analytics not detected at, or above the reporting limit
mg/Kg - Millierums per kilogram (PPM)
ug/L - Micrograms per liter (PPI)
PQL - Proceined Oranitation Limit - Liquals detection limit times the dilution factor
M - Matrix effects
DF - Dilution Factor

PROCEDURES: IRPH - Day analysis was performed using EPA Method 418 f

CERTIFICATION: California Department of Health Services LLAP mote Environmental Laboratories, 5500 Hosce.

Laboratory Directo

MAY 0 9 1997



Analytical Laboratory Report TRPH EPA Method 418.1

Date Sampled:

4/21/97

Date Received:

4/21/97

Report Number: Lab Number: Date Reported:

1D063 4/21/97

1D063C.RPT

Proj Mgr: Client:

Project: Units Soil: Units Water:

Rus Purcell Kennedy/Jenks

974002.00 mg/Kg

ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matrix
1D063-47	2BB-1A-3-10	4/21/97	4/21/97	ND		Soil
1D063-48	2BB-1A-3-20	4/21/97	4/21/97	ND		Soil
1D063-49	2BB-1A-3-30	4/21/97	4/21/97	ND	1	Soil
ID063-50	2BB-1A-3-40	4/21/97	4/21/97	ND	1	Soil
ID063-51	2BB-1A-3-50	4-21/97	4/21/97	ND	ı	Soil
ID063-52	2BB-5-44-1	4/21/97	4/21/97	190	1	Soil
ID063-53	2BB-5-44-4	4/21/97	4/21/97	100	ı	Soil
1D063-54	2BB-5-44-10	4/21/97	4/21/97	ND	1_	Soil
1D063-55	2BB-5-17-1	4/21/97	4/21/97	4300	100	Soil
1D063-56	2BB-5-17-4	4/21/97	4/21/97	4800	100	Soil
1D063-57	2BB-1A-5-1	4/21/97	4/21/97	ND	1	Soil
ID063-58	2BB-1A-5-4	4/21/97	4/21/97	ND	1	Soil
1D063-59	2BB-1A-5-10	4/21/97	4/21/97	ND	i	Soil
1D063-60	2BB-1A-5-20	4/21/97	4/21/97	ND	ı	Soil
1D063-61	2BB-1A-5-30	4/21/97	4/21/97	ND	1	Soil
1D063-62	2BB-1A-5-40	4/21/97	4/21/97	ND	1	Soil
1D063-63	2BB-1A-5-50	4/21/97	4/21/97	ND	1	Soil
ID063-64	2BB-5-18-5	4/21/97	4/21/97	ND	- 1	Soil
1D063-65	2BB-5-18-10	4/21/97	4/21/97	ND	ı	Soil
ID063-66	288-5-18-15	4/21/97	4/21/97	ND	1	Soil
ID063-67	2BB-5-18-20	4/21/97	4/21/97	ND	}	Soil
ID063-68	2BB-5-18-25	4/21/97	4 21/97	ND	1	Soil

Reporting Limits	SOII ma/Ka	10
reporting Limits	OO'LD ING/ING	 • • •

Laboratory Director

NOTES.

NOTES.

8R. Not remeded.
N1): Analytee not detected at or above the reporting limit markee. Milligrouss per kdogram (PPM).

agd - Milrograms per liter (PPH).
PQL: Prochaga Quantitation Limit. Equals detection limit times the dilution factor M. - Matrix effects.
D1: Obtained Lactor.

PROCEDURES: TRPH - This means six was performed using LPA Method 418.1

CERTIFICATION: Cantornia Department of Health Services LLAP issue Lavironmental Laboratories, 5500 Boscell C

MAY 0 9 1997



Analytical Laboratory Report TPH-E Diesel, TPH-E Motor Oil EPA Method 8015 Modified

Date Sampled:

4/21/97

Date Received: Report Number:

4/21/97 1D063E.RPT

Lab Number:

1D063

Proj Mgr: Client: Rus Purcell Kennedy/Jenks

Project: Units Soil:

10

10

McDonnell Douglas mg/Kg

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TPH-E Diesel	TPH-E Motor Oil	TPH-E Sur. %	TPH-E DF	Matrix
ID063-07	2BB-1-26-50	4/22/97	4/23/97	ND	ND	108	1	Soil
ID063-15	2BB-5-9-1	4/22/97	4/23/97	ND .	ND	90	1	Soil
1D063-16	2BB-5-9-4	4/22/97	4/23/97	ND	27	93	1	Soil
1D063-18	2BB-5-8-1	4/22/97	4/23/97	ND	29	89	1	Soil
1D063-19	2BB-5-8-4	4/22/97	4/23/97	ND	ND	96	1	Soil
1D063-21	2BB-5-48-1	4/22/97	4/23/97	ND	46	88	1	Soil
1D063-22	2BB-5-48-4	4/22/97	4/23/97	ND	50	81	ı	Soil
1D063-43	2BB-5-45-4	4/22/97	4/23/97	ND .	98*	97	1	Soil
1D063-52	2BB-5-44-1	4/22/97	4/23/97	ND	ND	89	l	Soil
1D063-53	2BB-5-44-4	4/22/97	4/23/97	ND	ND	94	l	Soil
1D063-55	2BB-5-17-1	4/22/97	4/23/97	ND	250	D	5	Soil
1D063-56	2BB-5-17-4	4/22/97	4/23/97	ND	1200*	D	5	Soil

NOTES:

- NR Not requested
- NC Not confirmed
- ND Analytes not detected at, or above the reporting limit
- Sur "" Percent surrogate recovery
- mg/Kg Milligrams per kilogram (PPM)
- PQL Practical Quantitation Limit | Equals detection limit times the dilution factor

Reporting Limits SOIL mg/Kg

- D Surrogate was diluted out
- M Matrix effects
- DF Dilution Factor
- * Sample chromatogram does not match standard chromatogram
- TPH-E Diesel Total petroleum hydrocarbons extractable quantitated as Diesel
- TPH-E Motor Oil Total petroleum hydrocarbons extractable quantitated as Motor Oil

PROCEDURES:

TPH-E - This analysis was performed using EPA Method 8015 Mod

CERTIFICATION:

California Department of Health Services ELAP

Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538 (510) 490-8571

MAY 0 9 1997



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: μg/Kg

	DATE	ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
		EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	4/21/9/ N/A
		SAMPLE ID	1D063-01	1D063-02	1D063-03	1D063-04	1D063-05	1D063-06	1D063-07
	JENT SAMPL		1-26-1	1-26-4	1-26-10	1-26-20	1-26-30	1-26-40	1-26-50
CI CI		N SOLVENT	1-20-1	1-20-4	1-20-10	1*20*20	1-20-30	1-20-40	1-20-50
		ON METHOD				- -			
			1	1	1	1	1	1	1
DILUTION FA		CRDL		···-	'	 	'		
COMPOUND Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	· ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
		5	ND ND	ND	ND	ND	ND	ND	ND
Chloroethane Chloroform		5	ND	ND.	ND	ND ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND ND	ND	ND	ND	ND	ND	ND
1.2-Dichlorobenzene		5	ND ND	ND	ND	ND	ND	ND	ND
1.3-Dichlorobenzene		5	ND ND	ND	ND	ND ND	ND	ND	ND
1.4-Dichlorobenzene	<u>-</u>	5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Fred	n 12)	5	ND	ND	ND	ND	ND	ND	ND
		5	ND	ND	ND ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA) 1,2-Dichloroethane (1,2-DCA)		5	ND	ND ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-	DCEL	5	ND	ND ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-		5	ND ND	ND	ND	ND	ND	ND	ND
	2-000	5	ND	ND	ND	ND	ND ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
		5	ND	ND ND	ND	ND	ND	ND ND	ND
Ethyl benzene Methylene chloride (Dichloron		5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ie(iiaiie)	5	ND	ND ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachioroethane		5	ND	ND	ND	ND	ND	ND ND	ND
Tetrachloroethene (PCE)		5	ND	ND ND	ND	ND	ND	ND ND	ND
Toluene		5	ND	ND ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-		. 5	ND	ND	ND	ND	ND ND	ND	ND
1,1,2-Trichloroethane (1,1,2-		5	ND ND	ND	ND	ND	ND	ND	ND
		5	ND	ND ND	ND	ND ND	ND	ND ND	ND
Trichlorgethene (TCE)		5	ND	ND	ND	ND ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND	ND	ND ND	ND
m,p-Xylenes o-Xylene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
**************************************		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	103%	108%	110%	112%	113%	111%	110%
Toluene-d8	50	80%-115%	106%	106%	105%	107%	106%	107%	105%
4-Bromofluorobenzene	50	75%-125%	99%	101%	98%	101%	99%	98%	99%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

MAY 0 9 1997



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS : $\mu g/Kg$

	DATE	ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
	DATE I	XTRACTED	N/A						
	LAB	SAMPLE ID	1D063-08	1D063-09	1D063-10	1D063-11	1D063-12	1D063-13	10063-14
CL	IENT SAMPLI	E ID : 288-	1A-1-1	1A-1-4	1A-1-10	1A-1-20	1A-1-30	1A-1-40	1A-1-50
······································	EXTRACTIO	N SOLVENT							
	EXTRACTIO	N METHOD							
	DILUTION		1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND						
Bromodichloromethane		5	ND						
Bromoform		5	ND						
Bromomethane		5	ND	ND	. ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	NĎ	ND	ND	ND	ND	ND
Chlorobenzene		5	ND						
Chloroethane		5	ND						
Chloroform		5	ND						
Chloromethane		5	ND						
Dibromochloromethane		5	ND						
1.2-Dichlorobenzene		5	ND						
1.3-Dichlorobenzene		5	ND						
1.4-Dichlorobenzene		5	ND						
Dichlorodifluoromethane (Freo	n 12)	5	ND						
1,1-Dichloroethane (1,1-DCA)		5	ND						
1,2-Dichloroethane (1,2-DCA)		5	ND						
1,1-Dichloroethene (1,1-DCE)		5	ND						
cis-1,2-Dichloroethene (c-1,2-	DCF)	5	ND						
trans-1.2-Dichloroethene (t-1,		5	ND						
1,2-Dichloropropane	2 3 0 2.	5	ND						
cis-1,3-Dichloropropene		5	ND						
trans-1,3-Dichloropropene	-	5	ND						
Ethyl benzene		5	ND						
Methylene chloride (Dichlorom	ethane)	5	ND						
1.1.1.2-Tetrachloroethane	ethanes	5	ND						
1,1,2,2-Tetrachloroethane		5	ND ND	ND	ND	ND	ND	ND	ND
	.	5	ND ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND						
Toluene	TCA)	5	ND ND	ND ND	ND ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-]		5	ND ND	ND ND	ND	ND ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-1	ICAI	5	ND	ND	ND	16	ND ND	ND	ND
Trichloroethene (TCE)	11)	5	ND ND	ND	ND	ND	ND ND	ND	ND
Trichlorofluoromethane (Freon	. 11)	5.	ND ND	ND	ND	ND	ND ND	ND ND	ND
m,p-Xylenes		5	ND ND	ND	ND	ND	ND ND	ND	ND ND
o-Xylene Vinyl chloride (VC)		5	ND						
		1000	ND ND	ND	ND	ND	ND	ND	ND
TPH as gasoline	SPK conc	ACP %	%RC						
SURROGATE Dibromofluoromethane	50	75%-120%	105%	106%	106%	107%	106%	107%	102%
Toluene-d8	50	80%-115%	105%	106%	105%	106%	105%	104%	105%
4-Bromofluorobenzene	50	75%-125%	98%	99%	100%	99%	99%	98%	99%

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Laboratory Director

MAY 0 9 1997



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS : μg/Kg

	DAT	E ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
	DATE	EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LA	B SAMPLE ID	1D063-15	1D063-16	1D063-17	1D063-18	1D063-19	1D063-20	1D063-21
C	LIENT SAMPL	E ID : 2BB-	5-9-1	5-9-4	5-9-10	5-8-1	5-8-4	5-8-10	5-48-1
•	EXTRACTION	ON SOLVENT							
	EXTRACTI	ON METHOD					- -		
	DILUTION FA		1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND .	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND	ND	ND
Chioromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Fred	n 12)	5	ND	ND	ND	ND ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND :
1.2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene (1.1-DCE)		5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-	DCE)	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND.	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloron	vethane)	5	ND	ND	ND	ND	ND	ND ND	ND
1,1,1,2-Tetrachloroethane	,ottrario,	5	ND	ND	ND	ND	ND	ND	ND
1.1.2.2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND ND
1,1,1-Trichloroethane (1,1,1-	TCA)	5	ND	ND	ND	ND	ND ND	ND	ND ND
1,1,2-Trichloroethane (1,1,2-		5	ND	ND	ND	ND	ND ND	ND	ND
Trichloroethene (TCE)	. 0/1/	5	ND	ND	ND	ND	ND	ND	ND ND
Trichlorofluoromethane (Freon	11)	5	ND	ND	ND	ND	ND	ND	ND ND
m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND .	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	114%	111%	111%	109%	109%	109%	112%
Toluene-d8	50	80%-115%	104%	104%	105%	104%	104%	106%	105%
4-Bromofluorobenzene	50	75%-125%	94%	98%	104%	95%	101%	99%	100%

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

lanix effect confirmed

Laboratory Director

MAY 0 9 1997



METHOD: EPA 8260 Project No: 974002.00 REPORTING UNITS: µg/Kg

				,	,		,		
	DAT	E ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
	DATE	EXTRACTED	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
	LAI	SAMPLE ID	1D063-22	1D063-23	1D063-24	1D063-25	1D063-26	1D063-27	10063-28
С	LIENT SAMPL	E ID : 288-	5-48-4	5-48-10	1A-2-1	1A-2-4	1A-2-10	1A-2-20	1A-2-30
	EXTRACTION SOLVEN								
EXTRACTION MET		ON METHOD							
	DILUT	ON FACTOR	1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND _	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5_	ND	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1.3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1.4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Fred	n 12)	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-	DCE	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2	•	5	ND	ND	ND	ND	ND	ND	ND ND
	2-DCE/	5	ND	ND	ND	ND	ND		
1,2-Dichloropropane		5	ND ND	ND ND	ND ND	ND		ND	ND
cis-1,3-Dichloropropene		5		ND ND	ND.		ND	ND	ND
trans-1,3-Dichloropropene			ND			ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND_	ND	ND	ND	ND
Methylene chloride (Dichloron	nethane)	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND ·	ND	ND
1,1,1-Trichloroethane (1,1,1-		5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-	TCA)	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND	ND	ND	5 J	ND
Trichlorofluoromethane (Freor	11)	5	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	110%	108%	113%	111%	107%	110%	113%
Toluene-d8	50	80%-115%	106%	103%	104%	105%	106%	104%	106%
4-Bromofluorobenzene	50	75%-125%	97%	100%	99%	99%	_ 104%	100%	99%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

 ${\bf J}$ - At or below CRDL

M - Matrix effect confirmed

Laboratory Director

MAY 0 9 1997



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: $\mu g/Kg$

· · · · · · · · · · · · · · · · · · ·				1	T	· · · · · · · · · · · · · · · · · · ·			
		ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
		EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		SAMPLE ID	1D063-29	1D063-30	1D063-31	1D063-32	1D063-33	1D063-34	1D063-35
CL	IENT SAMPL		1A-2-40	1A-2-50	1A-4-1	1A-4-4	1A-4-10	1A-4-20	1A-4-30
		N SOLVENT							
		ON METHOD							
	DILUTI	ON FACTOR	1	1	1	1	. 1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND_	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chiorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND_	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND_	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freo	n 12)	5	ND	ND _	ND	ND	ND	ND ·	ND
1,1-Dichloroethane (1,1-DCA)		5	, ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND_	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-	DCE)	5	ND	ND	ND_	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,	2-DCE)	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichlorom	ethane)	5	ND	ND	ND	ND	ND	ND	ND
1.1.1.2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1.1.2.2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1.1.1-Trichloroethane (1.1.1-1	CA)	5	ND	ND	ND	ND	ND	ND	ND
1.1.2-Trichloroethane (1.1.2-1		5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	" .	5	ND	ND	ND	ND	ND	ND	ND
	11)	5	ND ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11) m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xvlene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	105%	107%	108%	111%	109%	110%	101%
Toluene-d8	50	80%-115%	106%	104%	104%	106%	106%	106%	106%
4-Bromofluorobenzene	50	75%-125%	101%	98%	96%	98%	97%	98%	97%

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

MAY 0 9 1997



REPORTING UNITS : μg/Kg METHOD: EPA 8260 Project No: 974002.00

	DATE	ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
		EXTRACTED	N/A						
		SAMPLE ID	1D063-36	1D063-37	1D063-38	1D063-39	1D063-40	1D063-41	1D063-42
CI	LIENT SAMPL		1A-4-40	1A-4-50	5-47-1	5-47-4	5-47-10	5-46-1	5-45-1
		N SOLVENT							
		ON METHOD							
		ON FACTOR	1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND						
Bromodichloromethane		5	ND						
Bromoform		5	ND						
Bromomethane		5_	ND						
Carbon tetrachloride		5	ND						
Chlorobenzene		5	ND						
Chloroethane		5	ND						
Chloroform		5	ND						
Chloromethane		5	ND	ND	ND	ND	ND ·	ND	ND
Dibromochloromethane		5	ND						
1,2-Dichlorobenzene		5	ND						
1,3-Dichlorobenzene		5	ND						
1,4-Dichlorobenzene		5	ND						
chlorodifluoromethane (Freon 12)		5	ND						
1,1-Dichloroethane (1,1-DCA)		5	ND						
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND ·	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	· ND	ND	ND _	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-	DCE)	5	ND						
trans-1,2-Dichloroethene (t-1,	2-DCE)	5	ND	ND	ND	ND	ND -	ND	ND
1,2-Dichloropropane		5	ND						
cis-1,3-Dichloropropene		5	ND						
trans-1,3-Dichloropropene		5	ND	ND .	ND	ND	ND	ND	ND
Ethyl benzene		5	ND						
Methylene chloride (Dichlorom	nethane)	5	ND						
1,1,1,2-Tetrachloroethane		5	ND						
1,1,2,2-Tetrachloroethane		5	ND						
Tetrachloroethene (PCE)		5	ND						
Toluene		5	ND						
1,1,1-Trichloroethane (1,1,1-	TCA)	5	ND						
1,1,2-Trichloroethane (1,1,2-	TCA)	5	ND						
Trichloroethene (TCE)		5	ND	ND	ND	ND	ND	ND	7.5
Trichlorofluoromethane (Freon	11)	5	ND						
m,p-Xylenes		5	ND						
o-Xylene			ND						
Vinyl chloride (VC)			ND						
TPH as gasoline		1000	ND						
SURROGATE	SPK conc	ACP %	%RC						
Dibromofluoromethane	50	75%-120%	106%	98%	116%	111%	116%	123% M	115%
Toluene-d8	50	80%-115%	105%	105%	101%	107%	107%	102%	107%
4-Bromofluorobenzene	50	75%-125%	97%	96%	94%	96%	98%	90%	95%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample M - Matrix effect confirmed

MAY 0 9 1997



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: µg/Kg

			4:04:07	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
		ANALYZED	4/21/97		4/21/97 N/A	4/21/97 N/A	4/21/97 N/A		
		EXTRACTED	N/A	N/A				N/A	N/A
		SAMPLE ID	1D063-43	1D063-44	1D063-45	1D063-46	1D063-47	1D063-48	1D063-49
CL	IENT SAMPL		5-45-4	5-45-10	1A-3-1	1A-3-4	1A-3-10	1A-3-20	1A-3-30
		N SOLVENT							
		ON METHOD							
	DILUTI	ON FACTOR	11	11	1	1	1	1	1
COMPOUND		CRDL		NID -	ND	ND	ND	ND	ND
Benzene		5	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
Bromodichloromethane		<u> </u>		ND ND	ND ND	ND ND	ND	ND	ND ND
Bromotorm		5	ND				ND		
Bromomethane		5	ND	ND_	ND	ND		ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND ND	ND	ND ND	ND_	ND	ND ND	ND
Chloroform		5	ND_	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND_	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND_	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	. ND	ND.	ND	ND	ND
chlorodifluoromethane (Freon 12)		5	ND	ND _	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-	DCE)	5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,	2-DCE)	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropans		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichlorom	nethane)	5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-	TCA)	5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-		5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon	11)	5	ND ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	,	5	ND	ND	ND	ND	ND	ND	ND
n.p-xylenes p-Xylene		5	ND ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	107%	107%	108%	109%	107%	108%	101%
Toluene-d8	50	80%-115%	102%	104%	105%	106%	105%	106%	106%
4-Bromofluorobenzene	50	75%-125%	95%	100%	95%	96%	97%	96%	100%

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample M - Matrix effect confirmed

Laboratory Director



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS : μg/Kg

METHOD: EPA 8200		Proje	ICT NO: 97400	12.00			REFORTING	G C.N115 : μg	/ Ng
	DAT	E ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/22/97	4/22/97
	DATE	EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LAF	B SAMPLE ID	1D063-50	1D063-51	1D063-52	1D063-53	1D063-54	1D063-55	1D063-56
Ct	LIENT SAMPL	E ID : 288-	1A-3-40	1A-3-50	5-44-1	5-44-4	5-44-10	5-17-1	5-17-4
	EXTRACTIO	ON SOLVENT	-						
	EXTRACTI	ON METHOD		_			-		
	DILUT	ION FACTOR	1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5	DN	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND	ND	ND	ND
1.1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1.2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-		5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2-000	5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND .	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	·	5	ND	ND	ND	ND	ND	ND	ND
		5	ND ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichlorom	letnane)	5	ND ND	ND	ND	ND			
1,1,1,2-Tetrachloroethane		5	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1.2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND ND		
Tetrachloroethene (PCE)		+						ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-1		5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-1	(CA)	5	ND	ND	ND	ND	ND	ND ND	ND
Trichloroethene (TCE)		5	ND_	ND	ND	ND	ND	ND	ND ND
Trichlorofluoromethane Freon		5.	ND ND	ND	ND	ND	ND .	ND	ND
n.p-Xylenes		5	ND	ND	ND	ND	ND ·	ND	ND
o-Xylene		5 5	ND ND	ND	ND	ND	ND	ND ND	ND
	Vinyl chloride (VC)		ND _	ND	ND	ND	ND	ND	ND
TPH as gasoline	Tobu	1000	ND ND	ND	ND 01.DO	ND	ND	ND;	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120% 80%-115%	98% 105%	101%	111% 102%	112% 104%	107%	108%	108% 103%
Toluene-d8 4-Bromofluorobenzene	50	75%-125%	101%	105%	98%	99%	98% 100%	102% 96%	97%

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

4 - Matrix effect confirmed

MAY 0 9 199

Date

Laboratory Director



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: µg/Kg

	_	E ANALYZED	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97	4/21/97
		EXTRACTED	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LA	SAMPLE ID	1D063-57	1D063-58	1D063-59	1D063-60	1D063-61	1D063-62	1D063-63
C	LIENT SAMPL		1 A-5-1	1A-5-4	1A-5-10	1A-5-20	1A-5-30	1A-5-40	1A-5-50
	EXTRACTION	ON SOLVENT							
·		ON METHOD							
	DILUT	ON FACTOR	1	1	1	11	1	1	1
COMPOUND		CRDL							
Benzene		5	ND ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND ND	ND	ND	ND	ND	ND
Carbon tetrachloride			ND	ND ND	ND	ND	ND	ND ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND ND	ND	ND
Chloroform		5	ND	ND	ND	ND ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND ND	ND	ND
1,2-Dichlorobenzene		5	ND ND	ND ND	ND	ND	ND	ND ND	ND
1,3-Dichlorobenzene		5	ND ND	ND	ND	ND.	ND	ND	ND
1,4-Dichlorobenzene	40:	5	ND ND	ND	ND ND	ND ND	ND	ND	ND
ichlorodifluoromethane (Freon 12)		5	ND ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND ND	ND ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)	0.051	5	ND ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (J-1,2-		5 5	ND	ND ND	ND ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,	2-DCE)		ND			ND	ND ND	ND	ND
1.2-Dichloropropane		5 5	ND	ND ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND ND	ND ND	ND ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5				ND	ND	ND ND	ND
Ethyl benzene		5	ND ND	ND ND	ND ND	ND	ND	ND	ND
Methylene chloride (Dichloron	nethane)	5				ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		 	ND	ND ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND ND	ND ND	ND	ND	ND	ND	ND
Toluene					ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-		5	ND	ND ND	ND	ND	ND	ND	ND
1.1.2-Trichloroethane (1.1.2-	ICA)	-	ND	ND	ND 0.5	ND	ND	ND	ND
Trichloroethene (TCE)		5	18	ND	9.5	26	ND	5.3	19
richlorofluoromethane (Freon 11)		5	ND	ND ND	ND	ND	ND	ND	ND
n,p-Xylenes		5 5	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
o-Xylene		5	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND
/inyl chloride (VC)									
TPH as gasoline SURROGATE	CDV	1000 ACP %	ND %RC	ND %RC	ND %RC	ND %RC	ND %RC	ND %RC	ND % DC
Dibromofluoromethane	SPK conc	75%-120%	%HC	%RC 106%	%RC 108%	%RC 108%	%HC 96%	%HC 99%	%RC 101%
Toluene-d8	50	80%-115%	105%	106%	106%	108%	105%	105%	101%
4-Bromofluorobenzene	50	75%-125%	97%	97%	99%	97%	98%	99%	98%

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Laboratory Directo

MAY 0 9 1997



METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: µg/Kg

	DATI	E ANALYZED	4/22/97	4/22/97	4/22/97	4/22/97	4/21/97
	DATE	EXTRACTED	N/A	· N/A	N/A	N/A	N/A
	LAE	SAMPLE ID	1D063-64	1D063-65	1D063-66	1D063-67	1D063-68
С	LIENT SAMPL	EID: 288-	5-18-6	5-18-10	5-18-15	5-18-20	5-18-25
	EXTRACTIO	ON SOLVENT					
	EXTRACTION	ON METHOD					
	DILUT	ION FACTOR	1	1	1	1	1
COMFOUND		CRDL	-	_			
Benzene		5	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	_ ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND
Chloroethane		5	ND_	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	. ND	ND
Chloromethane		5	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND.
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Free	5	ND	ND	ND	ND	ND	
1,1-Dichloroethane (1,1-DCA)	5	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	5	ND	ND	ND	ND	. ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2	-DCE)	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1	,2-DCE)	5	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND
Methylene chloride (Dichloron	nethane)	5	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		_ 5	ND	ND	ND	ND	· ND
Toluene		5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-	TCA)	5	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-	TCA)	5	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freor	ո 11)	5	ND	ND	ND .	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND
Vinyl chloride (VC)	5	ND	ND	ND	ND	ND	
TPH as gasoline		1000	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-120%	105%	103%	105%	105%	106%
Toluene-d8	50	80%-115%	105%	105%	106%	105%	106%
4-Bromofluorobenzene	50	75%-125%	98%	99%	98%	100%	98%

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Laboratory Director

MAY 0 9 1997



QC DATA REPORT TPH-E

EPA Method 8015 Modified

Date Analyzed: Date Extracted: 4/22/97, 4/23/97

4/22/97

Report Number: Lab Number:

0422SD.QAC DIESEL: 2BB-6-14-4. 1D062-09

MOTOR OIL: 2BB-1-26-50, 1D063-07

Proj Mgr:

Rus Purcell

Client:

Kennedy/Jenks 974002.00

Project: Matrix:

Soil

Units:

mg/Kg

Parameter	Blank Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov.	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov.	RPD %
TPH-E diesel	ND	100	105	105	0.0	81.6	· 82	80.5	81	1.4
TPH-E mo	ND	107	109	102	0.0	115	107	133	124	14.5
surr %rec dies.	99			95	87	_	83		86	
ırr ⁰₀rec ino				87	108		90		102	

DEFINITION OF TERMS:

ND - $\ Analytes$ not detected at, or above the reporting limit MS - $\ Matrix$ Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference (MS - MSD) /((MS + MSD)/2) X 100

LCS - Laboratory Control Spike

LCSD- Laboratory Control Spike Duplicate

LABORATORY OC CRITERIA

Parameter	Accer	otable % Reco	<u>veries</u>
TPH-E	65%	to	135%
°äRPD	Û°.	10	35%



QC DATA REPORT TRPH

EPA Method 418.1

Date Sampled: Date Received: 4/21/97

4/21/97

Date Analyzed:

4/21/97

Date Extracted: Report Number: 4/21/97 0421D.QAC

D063-68

Proj Mgr:

Rus Purcell

Client:

Kennedy/Jenks

Project:

974002.00

Matrix: Units:

Soil mg/Kg

Lab Number:	2BB-5-18-25. 1

	Blank I	Blank 2	Spike	LCS	LCS	Sample	MS	MS	MSD	MSD	
Parameter	Result	Result	Level	Result	Recov.	Result	Result	Recov.	Result	Recov.	RPD
1	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%·	mg/Kg	mg/Kg	%	mg/Kg	%	%
418.1	ND	ND	25.0	26.0	104	0.0	22.5	90	25.3	101	11.7

\prec . DEFINITION OF TERMS:

) - Analytes not detected at, or above the reporting limit

MS - Matrix Spike
MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference. (MS - MSD) ((MS + MSD) 2) X 100

LCS - Laboratory Control Spike

LCSD- Laboratory Control Spike Duplicate

LABORATORY OC CRITERIA

Parameter TRPH

Acceptable % Recoveries

140%

°₀R₽D

35%



QC DATA REPORT TRPH

EPA Method 418.1

Date Sampled:

4/21/97

Date Received:

4/21/97

Date Analyzed: Date Extracted: 4/21/97 4/21/97

Report Number:

Lab Number:

2BB-1A-3-40, 1D063-50

0421C.QAC

Proj Mgr:

Rus Purcell

Client:

Kennedy/Jenks 974002.00

Project: Matrix:

Soil

Units:

mg/Kg

	Blank 1	Blank 2	Spike	LCS	LCS	Sample	MS	MS	MSD	MSD	
Parameter	Result	Result	Level	Result	Recov.	Result	Result	Recov.	Result	Recov.	RPD
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	mg/Kg	mg/Kg	%	mg/Kg	%	%
418.1	ND	ND	25.0	26.7	107	0.0	26.7	107	27.4	110	2.6

definition of terms:

D - Analyses not detected at, or above the reporting limit

MS - Matrix Spike MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference (MS - MSD) /((MS + MSD)/2) X 100

LCS - Laboratory Control Spike LCSD- Laboratory Control Spike Duplicate

LABORATORY OC CRITERIA

<u>Parameter</u>

Acceptable % Recoveries 60%

140%

%RPD

00.6

35%



QC DATA REPORT TRPH

EPA Method 418.1

Date Sampled:

4/21/97

Date Received:

4/21/97

Date Analyzed:

4/21/97 4/21/97

Date Extracted: Report Number:

0421B.QAC

Lab Number:

2BB-1A-4-50, 1D063-37

Proj Mgr:

Rus Purcell

Client:

Kennedy/Jenks

Project:

974002.00 Soil

Matrix: Units:

mg/Kg

	Blank 1	Blank 2	Spike	LCS	LCS	Sample	MS	MS	MSD	MSD	
Parameter	Result	Result	Level	Result	Recov.	Result	Result	Recov.	Result	Recov.	RPD
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	mg/Kg	mg/Kg	%	mg/Kg	%	%
418.1	ND	ND	25.0	26.0	104	0.0	26.3	105	24.6	98	6.7

DEFINITION OF TERMS:

D - Analytes not detected at, or above the reporting limit

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference. (MS - MSD) ((MS - MSD)/2) X 100

LCS - Laboratory Control Spike LCSD- Laboratory Control Spike Duplicate

LABORATORY OC CRITERIA

Parameter TRPH Acceptable % Recoveries 140% 60% %RPD



QC DATA REPORT TRPH

EPA Method 418.1

Date Sampled:

4/18/97

Date Received:

4/21/97

Date Analyzed:

4/21/97

Date Extracted: Report Number: 4/21/97

Lab Number:

0421A.QAC

2BB-1A-1-50, 1D063-14

Proj Mgr:

Rus Purcell

Client:

Kennedy/Jenks

Project:

974002.00

Matrix:

Soil

Units:

mg/Kg

	Blank 1	Blank 2	Spike	LCS	LCS	Sample	MS	MS	MSD	MSD	
Parameter	Result	Result	Level	Result	Recov.	Result	Result	Recov.	Result	Recov.	RPD
i	mg/Kg	mg/Kg	mg/Kg	mg/Kg	%	mg/Kg	mg/Kg	%	mg/Kg	%	%
418.1	ND	ND	25.0	24.6	98	0.0	25.3	101	22.5	90	11.7

, DEFINITION OF TERMS:

D - Analytes not detected at, or above the reporting limit

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference (MS - MSD) / (MS + MSD)/2) X 100

LCS - Laboratory Control Spike

LCSD- Laboratory Control Spike Duplicate

LABORATORY OC CRITERIA

Acceptable % Recoveries Parameter TRPH 140% 60% 0% 35% %RPD



LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS : $\mu g/L$ - LCS

 μ g/Kg - MB

DATE PERFORMED:

4/21/97

SUPPLY SOURCE: LOT NUMBER:

Absolut Standards, Inc.

012095(gases), 051596(liq.)

LAB LCS ID:

LCS 4/21 #1 MS2

DATE OF SOURCE:

3/14/97

ANALYTE		MB 4/21 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	26.3	105%	85%-115%
Bromodichloromethane		ND	25	25.3	101%	85%-115%
Bromoform		ND	25	25.2	101%	85%-115%
Bromomethane		ND	25	21.4	86%	85%-115%
Carbon tetrachloride	•	ND	25	24.7	99%	85%-115%
Chlorobenzene		ND	25	25.8	103%	85%-115%
Chloroethane		ND	25	26.6	106%	85%-115%
Chloroform		ND	25	26.3	105%	85%-115%
Chloromethane		ND	25	26.5	106%	85%-115%
Dibromochloromethane		ND	25	24.9	100%	85%-115%
1,2-Dichlorobenzene		ND_	25	26.2	105%	85%-115%
1,3-Dichlorobenzene		ND	25	25.7	103%	85%-115%
1,4-Dichlorobenzene	· · · · ·	ND	25	25.6	102%	85%-115%
Dichlorodifluoromethane (Fred	on 12)	ND	25	27.0	108%	85%-115%
1,1-Dichloroethane (1,1-DCA))	ND	25	27.2	. 109%	85%-115%
1,2-Dichloroethane (1,2-DCA))	ND	25	25.1	100%	85%-115%
1,1-Dichloroethene (1,1-DCE)		ND	25	27.5	110%	85%-115%
cis-1,2-Dichloroethene (c-1,2-		ND	25	27.5	110%	85%-115%
trans-1,2-Dichloroethene (t-1,	,2-DCE)	ND	25	27.0	108%	85%-115%
1,2-Dichloropropane		ND	25	26.6	106%	85%-115%
cis-1,3-Dichloropropene		ND	25	25.9	104%	85%-115%
trans-1,3-Dichloropropene		ND	25	25.5	102%	85%-115%
Ethyl benzene		ND	25	25.9	104%	85%-115%
Methylene chloride (Dichloron	nethane)	ND	25	27.7	111%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	25.1	100%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	27.3	109%	85%-115%
Tetrachloroethene (PCE)	-	ND	25	24.4	98%	85%-115%
Toluene		. ND	25	26.0	104%	85%-115%
1,1,1-Trichloroethane (1,1,1-	TCA)	ND	25	25.7	103%	85%-115%
1,1,2-Trichloroethane (1,1,2-	TCA)	ND	25	26.1	104%	85%-115%
Trichloroethene (TCE)		ND	25	25.3	101%	85%-115%
Trichlorofluoromethane (Freor	111)	ND	25	21.2	85%	85%-115%
m,p-Xylenes	<u></u>	ND	50	52.4	105%	85%-115%
o-Xylene		ND	25	26.0	104%	85%-115%
Vinyl chloride (VC)		ND	25	21.6	86%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	108%		108%		
Toluene-d8	50	108%		106%		
4-Bromofluorobenzene	50	99%		99%		

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: μg/L - LCS

μg/Kg - MB

DATE PERFORMED: SUPPLY SOURCE:

4/21/97

Absolute Standards, Inc.

LAB LCS ID:

LCS 4/21 #2 MS2

LOT NUMBER:

012095(gases), 051596(liq.)

DATE OF SOURCE:

3/14/97

ANALYTE		MB 4/21 #2	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	25.9	104%	85%-115%
Bromodichloromethane		ND	25	25.5	102%	85%-115%
Bromoform		ND	25	27.4	110%	85%-115%
Bromomethane		ND	25	20.3	81%	85%-115%
Carbon tetrachloride		ND	25	24.9	100%	85%-115%
Chlorobenzene		ND	25	26.7	107%	85%-115%
Chloroethane		ND	25	26.0	104%	85%-115%
Chloroform		ND	25	26.6	106%	85%-115%
Chloromethane		ND	25	22.8	91%	85%-115%
Dibromochloromethane		ND	25	26.8	107%	85%-115%
1,2-Dichlorobenzene		ND	25	27.1	108%	85%-115%
1,3-Dichlorobenzene		ND	25	26.7	107%	85%-115%
1,4-Dichlorobenzene		ND	25	26.3	105%	85%-115%
Dichlorodifluoromethane (Freo	n 12)	ND	25	26.6	106%	85%-115%
1,1-Dichloroethane (1,1-DCA)		ND	25	27.3	109%	85%-115%
1,2-Dichloroethane (1,2-DCA)		ND	25	26.6	106%	85%-115%
1,1-Dichloroethene (1,1-DCE)		ND	25	26.8	107%	85%-115%
cis-1,2-Dichloroethene (c-1,2-	DCE)	ND	25	27.0	108%	85%-115%
trans-1,2-Dichloroethene (t-1,	2-DCE)	ND	25	27.0	108%	85%-115%
1,2-Dichloropropane		ND	25	26.9	108%	85%-115%
cis-1,3-Dichloropropene		ND_	25	25.1	100%	85%-115%
trans-1,3-Dichloropropene		ND	25	25.7	103%	85%-115%
Ethyl benzene		ND	25	26.6	106%	85%-115%
Methylene chloride (Dichlorom	ethane)	ND	25	27.5	110%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	26.3	105%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	29.9	120%	85%-115%
Tetrachloroethene (PCE)		ND	25	25.3	101%	85%-115%
Toluene		ND	. 25	25.9	104%	85%-115%
1,1,1-Trichloroethane (1,1,1-T	CA)	ND	25	25.5	102%	85%-115%
1,1,2-Trichloroethane (1,1,2-T	CA)	ND	25	26.8	107%	85%-115%
Trichloroethene (TCE)		ND	25	25.0	100%	85%-115%
Trichlorofluoromethane (Freon	11)	ND	25	18.7	75%	85%-115%
m,p-Xylenes		ND	50	54.8	110%	85%-115%
o-Xylene		ND	25	27.2	109%	85%-115%
Vinyl chloride (VC)		ND	25	19.3	77%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	111%		107%		
Toluene-d8	50	105%		104%	<u> </u>	•
4-Bromofluorobenzene	50	101%_		103%	j.	

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Laborator Directo

MAY 0 9 1997



Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD: EPA 8260

REPORTING UNITS: µg/Kg

DATE PERFORMED:

4/21/97

BATCH #:

0421-1

LAB SAMPLE ID #:

1D063-27

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	. SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene		ND	125	121	97%	125	124	99%	2%	70%-130%	20
Chlorobenzene		ND	125	121	97%	125	127	101%	4%	70%-130%	20
Chloroform		ND	125	127	101%	125	131	105%	4%	70%-130%	20
1,1-Dichloroethane (1,1-Di	CA)	ND	125	134	107%	125	142	114%	6%	70%-130%	20
1,2-Dichloroethane (1,2-Di	CA)	ND	125	129	103%	125	131	105%	2%	70%-130%	20
1,1-Dichloroethene (1,1-Di	CE)	ND	125	132	106%	125	139	112%	5%	70%-130%	20
Tetrachloroethene (PCE)		ND	125	204	163%	125	217	173%	6%	70%-130%	20
Toluene		ND	125	121	97%	125	127	101%	4%	70%-130%	20
Trichloroethene (TCE)		5.0	125	143	110%	125	155	120%	8%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	110%		108%			107%				
Toluene-d8	50	104%		107%	•		105%				
4-Bromofluorobenzene	50	100%		103%			103%				

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

abaratary Director

MAY 0 9 1997



LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: μg/L - LCS

μg/Kg - MB

DATE PERFORMED: SUPPLY SOURCE:

4/21/97

4/21/3/

Absolute Standards, Inc.

012095(gases), 051596(liq.)

LAB LCS ID:

LCS 4/21 #1 MS3 .

LOT NUMBER: DATE OF SOURCE:

3/14/97

ANALYTE		MB 4/21 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	26.3	105%	85%-115%
Bromodichloromethane		ND	25	25.2	101%	85%-115%
Bromoform		ND	25	21.6	86%	85%-115%
Bromomethane		ND	25	20.2	81%	85%-115%
Carbon tetrachloride		ND	25	25.1	100%	85%-115%
Chlorobenzene		ND	25	25.1	101%	85%-115%
Chloroethane		ND	25	25.8	103%	85%-115%.
Chloroform		ND	25	27.2	109%	85%-115%
Chloromethane		ND	25	25.1	100%	85%-115%
Dibromochloromethane		ND	25	24.0	96%	85%-115%
1,2-Dichlorobenzene		ND	25	25.6	102%	85%-115%
1,3-Dichlorobenzene		ND	25	25.6	102%	85%-115%
1,4-Dichlorobenzene		ND	25	25.4	101%	85%-115%
Dichlorodifluoromethane (Freo	n 12)	ND	25	22.7	91%	85%-115%
1,1-Dichloroethane (1,1-DCA)	<u>-</u>	ND	25	28.4	114%	85%-115%
1,2-Dichloroethane (1,2-DCA)		ND	25	26.2	105%	85%-115%
1,1-Dichloroethene (1,1-DCE)		ND	25	26.6	106%	85%-115%
cis-1,2-Dichloroethene (c-1,2-	DCE)	ND	25	26.4	106%	85%-115%
trans-1,2-Dichloroethene (t-1,	2-DCE)	ND	25	26.9	107%	85%-115%
1,2-Dichloropropane		ND	25	26.1	104%	85%-115%
cis-1,3-Dichloropropene		ND	25	25.9	103%	85%-115%
trans-1,3-Dichloropropene		ND	25	25.9	104%	85%-115%
Ethyl benzene		ND	25	25.2	101%	85%-115%
Methylene chloride (Dichlorom	ethane)	ND	25	26.4	105%	85%-115%
1,1,1,2-Tetrachlorosthane		ND	25	23.1	93%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	27.0	108%	85%-115%
Tetrachloroethene (PCE)		ND	25	23.3	93%	85%-115%
Toluene		ND	25	25.6	102%	85%-115%
1,1,1-Trichloroethane (1,1,1-T	CA)	ND	25	27.4	110%	85%-115%
1,1,2-Trichloroethane (1,1,2-T	CA)	ND	25	24.6	98%	85%-115%
Trichloroethene (TCE)		ND	25	24.9	99%	85%-115%
Trichlorofluoromethane (Freon	11)	ND	25	23.9	95%	85%-115%
n,p-Xylenes		ND	50	51.5	103%	85%-115%
o-Xylene		ND	25	26.1	104%	85%-115%
Vinyl chloride (VC)		ND	25	22.4	90%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	107%		106%		
Toluene-d8	50	104%		105%	1	1

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Laboratory Director

MAY 0 9 1997

Date

Printed on recycled paper.



LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD: EPA 8260

Project No: 974002.00

REPORTING UNITS: $\mu g/L$ - LCS

μg/Kg - MB

DATE PERFORMED:

4/21/97

SUPPLY SOURCE:

Absolute Standards, Inc.

012095(gases), 051596(liq.)

LAB LCS ID:

LCS 4/21 #2 MS3

LOT NUMBER: DATE OF SOURCE:

3/14/97

ANALYTE		MB 4/21 #2	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	27.4	110%	85%-115%
Bromodichloromethane		ND	25	26.6	106%	85%-115%
Bromoform		ND	25	23.0	92%	85%-115%
Bromomethane		ND	25	20.2	81%	85%-115%
Carbon tetrachloride		ND	25	26.3	105%	85%-115%
Chlorobenzene		ND	25	26.2	105%	85%-115%
Chloroethane		ND	25	26.1	104%	85%-115%
Chloroform		ND	25	28.3	113%	85%-115%
Chloromethane		ND	25	24.0	96%	85%-115%
Dibromochloromethane		ND	25	25.1	101%	85%-115%
1,2-Dichlorobenzene		ND	25	27.1	108%	85%-115%
1,3-Dichlorobenzene		ND	25	27.0	108%	85%-115%
1,4-Dichlorobenzene		ND	25	26.8	107%	85%-115%
Dichlorodifluoromethane (Fre	on 12)	ND	25	22.6	91%	85%-115%
1,1-Dichloroethane (1,1-DCA	.)	ND	25	29.7	119%	85%-115%
1,2-Dichloroethane (1,2-DCA	.)	ND	25	28.6	114%	85%-115%
1,1-Dichloroethene (1,1-DCE)	ND	25	28.0	112%	85%-115%
cis-1,2-Dichloroethene (c-1,2	-DCE)	ND	25	27.7	111%	85%-115%
trans-1,2-Dichloroethene (t-1	,2-DCE)	ND	25	27.6	110%	85%-115%
1,2-Dichloropropane	-	ND	25	27.9	112%	85%-115%
cis-1,3-Dichloropropene		ND	25	27.7	111%	85%-115%
trans-1,3-Dichloropropene	_	ND	25	27.7	111%	85%-115%
Ethyl benzene		ND	25	24.3	97%	85%-115%
Methylene chloride (Dichloron	methane)	ND	25	27.5	110%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	24.1	97%	85%-115%
1.1.2.2-Tetrachloroethane		ND	25	29.8	119%	85%-115%
Tetrachloroethene (PCE)		ND	25	23.2	93%	85%-115%
Toluene		ND	25	26.3	105%	85%-115%
1,1,1-Trichloroethane (1,1,1-	·TCA)	ND	25	29.0	116%	85%-115%
1,1,2-Trichloroethane (1,1,2-		ND	25	26.7	107%	85%-115%
Trichloroethene (TCE)		ND	25	26.1	104%	85%-115%
Trichlorofluoromethane (Freo	n 11)	ND	25	20.5	82%	85%-115%
m,p-Xylenes	<u> </u>	ND	50	51.2	102%	85%-115%
o-Xylene		ND	25	26.4	105%	85%-115%
Vinyl chloride (VC)		ND	25	21.6	86%	85%-115%
SURROGATE	SPK conc	%RC		%RG		
Dibromofluoromethane	50	107%		107%		
Toluene-d8	50_	105%		106%		
4-Bromofluorobenzene	50	99%		100%	1	1

Notes:

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Laboratory dilector

MAY 0 9 1997



Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD: EPA 8260

REPORTING UNITS: μg/Kg

DATE PERFORMED:

4/21/97

BATCH #:

0421-2

LAB SAMPLE ID #:

1D063-34

ANALYTÉ	<u> </u>	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	•	ND	125	137	109%	125	138	110%	1%	70%-130%	20
Chlorobenzene		ND	125	120	96%	125	120	96%	0%	70%-130%	
Chloroform		ND	125	145	116%	125	146	117%	1%	70%-130%	20
1,1-Dichloroethane (1,1-Di	CA)	ND	125	160	128%	125	161	129%	1%	70%-130%	20
1,2-Dichloroethane (1,2-Di	CA)	ND	125	145	116%	125	150	120%	4%	70%-130%	20
1,1-Dichloroethene (1,1-Di	CE)	ND	125	144	116%	125	145	116%	0%	70%-130%	20
Tetrachloroethene (PCE)		ND	125	169	135%	125	175	140%	3%	70%-130%	20
Toluene	-	ND	125	130	104%	125	131	105%	1%	70%-130%	20
Trichloroethene (TCE)		ND	125	129	103%	125	133	106%	3%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	110%		109%			109%				
Toluene-d8	50	106%		107%			106%				
4-Bromofluorobenzene	50	98%		96%			97%			1	

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

MAY 0 9 1997

Laboratory Director



Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD: EPA 8260

REPORTING UNITS: µg/Kg

DATE PERFORMED:

4/21/97

BATCH #:

0421-4

LAB SAMPLE ID #:

1D063-68

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene		ND	125	126	101%	125	137	110%	8%	70%-130%	20
Chlorobenzene	· <u> </u>	ND	125	112	89%	125	121	97%	8%	70%-130%	20
Chloroform		ND	125	138	111%	125	147	118%	6%	70%-130%	20
1,1-Dichloroethane (1,1-D	CA)	ND	125	151	120%	125	161	129%	7%	70%-130%	20
1,2-Dichloroethane (1,2-D	CA)	ND	125	141	113%	125	151	121%	7%	70%-130%	20
1,1-Dichloroethene (1,1-D	CE)	ND	125	136	109%	125	147	117%	8%	70%-130%	20
Tetrachioroethene (PCE)	•	ND	125	176	141%	125	189	151%	7%	70%-130%	20
Toluene		ND	125	121	97%	125	131	105%	8%	70%-130%	20
Trichloroethene (TCE)		ND	125	141	113%	125	150	120%	6%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	106%		106%			105%	-			-
Toluene-d8	50	106%		106%			105%		_	1	
4-Bromofluorobenzene	50	98%		99%			97%				

Notes :

ND - Analytes not detected at, or above the stated detection limit

PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

M - Matrix effect confirmed

Laboratory Director

MAY 0 9 1997



Daily Project Report

(To be kept with the daily project data files)

Project: Kennedy/Senks

DAC

Date: 4 /21 /97

ONSITE Analysts/Technicians: MY, NW, SW, LT

Project Status (Circle One): (Analyze Samples

Standby

Mob/Demob

Normal Hours and Overtime Hours Worked:

Normal Hours

Overtime Hours

Reason for Overtime

Sample Volume and Matrix

Samples Received and Matrix

68 soils for 8260 (80/0/1020)

Time Last Samples Received

Client Issues Raised:

ONSITE Action Plan:

CHAIN OF CUSTODY RECO

D ANALYSIS REQUEST

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LABORATORIES	, INC.	Address:							Address	3SS:			7516	, Z	Michelson On sulk loc
		City, State ZIP	ZIP						City.	City, State	ZIP		Inchas	Ŋ	CA. 926/2
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Date:	4-14-97	Fax:				:			Fax:			ı			
Page:	1 ★ of														
Laboratory:		Project Name:	ne:	240					P.O. No	 0 V					
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758-1-26-40	=	1355	=	11			90				X			-	
188-1-36-50	=	(40)	=	11			70				X			-	
308-1A-1-1	3	1515	=	11			80				X			-	
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			_			Client Sign-off:	ign-off:								
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,... D ANALYSIS REQUEST CHAIN OF CUSTODY RECO

City, State ZIP 5500 Boscell Common Fremont, CA 94535 Tel. (510) 490-8571 Fax. (510) 490-8572 Company: P.O. No.: Address: Phone: Bill to: Fax: 92612 2151 Mchelson Dr. Donglas Auccat 714-261-1577 161-2134 97,4002.00 Irvine CA Rus Purcell Kennedy Project Manager: Project Number: City, State ZIP Project Name: Client Name: Address: Phone: Fax: 4-21-97 ō

ENVIRONMENTAL LABORATORIES, INC.

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Lab Number: _aboratory: Page: Date:

Analysis Requested

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Remarks				
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Sample Identification	2013-5-9-1	2013-5-9-4	2018-5-9-10	2813-5-8-1	200-5-8-4	8B-5-8-10	288-5-48-1	268-5-48-4	288-5-48-10				Initials:	77	My			
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REMARKS/PRECAUTIONS 33 30 かな 32 31 35 5 36 S.D. HMMD -690g OTHER Lab Job No: (check) Page_ Reporting Format: (check) Sample Integrity: NORMAL RWQCB intact REQUIRED TAT: Analysis Request and ..., of Custody Record ANALYSIS/METHOD AREQUEST HOD = SS X X X Date/Time: 4/21/47 (602) 736-0960 Fax (602) 736-0970 Date/Time: Date/Time: PRES. Brack CONTAINER 4620 E. Elwood, Suite 4 Richard Two way Phoenix, AZ 85040 PROJECT INFORMATION 974002.00 SAMPLE Matrix - R Received For Lab By: Method of Shipment: SIMO W21 Pg 0820 4 0260 **999** 1030 08**4**5 0880 0900 520 500 090 1035 501 १० श SAMPLE **0**0≈ Received By: ORANGE COAST ANALYTICAL, INC. SAMPLE Date PROJECT NAME SAMPLED BY: LOCATION ADDRESS (714) 832-0064, Fax (714) 832-0067 NUMBER NO. OF CONTAINERS 152 tb/12/1 c Date/Time: Date/Time: 3002 Dow, Suite 532 Tustin, CA 92780 **CUSTOMER INFORMATION** -20 3: -30 5 3 120 -30 -20 2 <u>၁</u> ブリ ZBB-1A-2-Kennady ξX 1 SAMPLE 10 286-IA-Total No. of Samples: Relinquished By: Relinquished By: SEND REPORT TO: ADDRESS PHONE

CHAIN OF CUSTODY RECO , ANALYSIS REQUEST

City, State ZIP 5500 Boscell Common Fremont, CA 94530 Fel. (510) 490-8571 Fax. (510) 490-8572 Company P.O. No.: Address: Phone: Bill to: Fax 8 2151 Michelson Ste. Venks Bouglas AircraH 717-161-1577 2134 Rus Furcell 974002.00 Kennedi Levial Project Manager: Project Number: City, State ZIP Project Name: Client Name: Address: Phone: Fax: 4-21-97 ō ENVIRONMENTAL LABORATORIES, INC. 4 Lab Number: Laboratory: Page: Date:

Analysis Requested

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Remarks																		:		
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Sample Identification	283-5-47-1	288-5-47-4	C1-24-5-80C	188-5-46-1	23B-S-45-1	208-5-45-4	288-5-45-10	168-A-3-1	283-1A-3-4	3BB (A - 3 -10)	205-1A-3-20	2133 1A - 3-30	2BE-1A-3-40	188 -1 h- 3-50	Initials	JK	M /W	:		

CHAIN OF CUSTODY RECC

2151 Michelson Dr. SJH 100 92612 Remarks Kennedy/Jenks 7751-182-HIL Irvine CA. **Fotal Containers**: No. Containers Received Intact: Received Cold: Custody Seals: Analysis Requested バスリカ City, State ZIP 5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572 9 000/000 Company Address: P.O. No. Phone: (Mč f08) leseid - H9 Bill to: Fax White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client (M2108) ssD - H97 BTEX (8021) 63 25 8 200 29 09 54 57 8 59 5 10063 Cab ID Client Sign-off: Start Time: Stop Time: Hours: Date: Received By: Purcel 8 (n) 1510 Skroms = Time Relinquished: : -, = = = 5 974002 Signature: RJS DAC Relinquished By: Sampled & Matrix 3 Ę 7 = Ξ = ٤ ے Project Manager: Project Number: City, State ZIP Project Name: Time Sampled Client Name: 15051 1435 1515 1500 えな ムアエ 3541 500 1437 1327 Address: 1338 [533 Shane Scrimshire Phone: Tucosky Fax. Printed Name: Date Sampled 4-21-97 4-21-97 Ξ = ٦ = Michael ₽ ENVIRONMENTAL LABORATORIES, INC. 8 Sample Identification 28B-14.5-40 2133 - 5 - 44 - 10 25 - 18 - 5-30 2015-1A-506 25. M. 5.20 2813-5-44-4 255-11-5-4 788-0-72-1 1 -5-17-1 208-5-17-2BB-1A.5 1BB-1A-5 Lab Number Initials: Laboratory Ž Page: 200 Date:

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